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- 1. Titanium or a titanium alloy which is surface-treated by an imidazole compound.
- 2. The titanium or titanium alloy according to claim 1, wherein the imidazole compound is an imidazole silane compound.
- 3. An adhesive resin composition for titanium or a titanium alloy, comprising: a thermosetting resin and an imidazole compound.
- 4. The adhesive resin composition for titanium or a titanium alloy according to claim 3, further comprising a thermoplastic resin.
- 5. The adhesive resin composition for titanium or a titanium alloy according to any of claims 3 and 4, wherein the imidazole compound is an imidazole silane compound.
- 6. An adhesive resin composition for titanium or a titanium alloy, comprising: a thermosetting resin and a thermoplastic resin.
- 7. The adhesive resin composition for titanium or a titanium alloy according to any of claims 4 to 6, wherein the thermoplastic resin has a fracture energy release rate G_{1C} of 4500J/m^2 or more.
- 8. The adhesive resin composition for titanium or a titanium alloy according to any of claims 4 to 7, wherein the thermoplastic resin in the adhesive resin composition that has been cured is in a discontinuous phase as well as in a cohesive phase.
- 9. The adhesive resin composition for titanium or a titanium alloy according to any of claims 4 to 8, wherein the thermoplastic resin in the adhesive resin composition is a crystalline thermoplastic resin.
- 10. The adhesive resin composition for titanium or a titanium alloy according to any of claims 3 to 9, wherein the thermoplastic resin is an epoxy resin.
 - 11. An adhesive resin film for titanium or a titanium alloy

comprising the adhesive resin composition according to any of claims 3 to 10.

- 12. A prepreg comprising the adhesive resin composition according to any of claims 3 to 10 and reinforcing fibers.
- 13. The prepregaccording to claim 12, wherein the reinforcing fibers are impregnated with the adhesive resin composition.
- 14. The prepreg according to claim 12, wherein the adhesive resin composition is placed on a surface layer of the prepreg.
- 15. A prepreg comprising the adhesive resin film according to claim 11 placed on the surface layer of the prepreg.
- 16. The prepreg according to any of claims 12 to 15, wherein the reinforcing fibers are carbon fibers.
- 17. A composite material comprising: the titanium or titanium alloy according to claim 1 or claim 2 and an adhere that are adhered to each other.
- 18. The composite material according to claim 17, wherein the adhere is a plastic material or a metal material.
- 19. The composite material according to claim 18, wherein the adhere is a fiber reinforced plastic material.
- 20. The composite material according to claim 19, wherein a discrete adhesive resin layer is formed between the titanium or a titanium alloy and the fiber reinforced plastic.
- 21. A composite material wherein titanium or a titanium alloy and an adhere are adhered to each other through an adhesive resin layer formed by curing the adhesive resin composition according to any of claims 3 to 10.
- 22. A composite material wherein titanium or a titanium alloy and an adhere are adhered to each other through an adhesive resin layer formed by curing the adhesive resin film according to claim 11.
- 23. The composite material according to claim 21 or claim 22, wherein the adhere is a plastic material or a metal material.
 - 24. The composite material according to claim 23, wherein

the adhere is a fiber-reinforced plastic.

- 25. A composite material wherein titanium or a titanium alloy and the prepreg according to any of claims 12 to 16 are adhered to each other.
- 26. The composite material according to any of claims 17 to 25, wherein the peel torque of the titanium or titanium alloy from the adhere, measured in compliance with ASTM D 1781-98, is 5N-mm/mm or more.
- 27. A surface treatment method of titanium or a titanium alloy comprising the step of: surface-treating the surface of the titanium or titanium alloy by using an imidazole compound or a solution thereof.
- 28. A manufacturing method of a composite material comprising the step of: applying the adhesive resin composition according to any of claims 3 to 10 to the surface of titanium or a titanium alloy.
- 29. A manufacturing method of a composite material comprising the step of: laminating the adhesive resin film according to claim 11 to the surface of titanium or a titanium alloy.
- 30. Amanufacturing method of a composite material comprising the step of: laminating the prepreg according to any of claims 12 to 16 to the surface of titanium or titanium alloy.
- 31. Amanufacturing method of a composite material comprising the steps of: applying an adhesive resin composition containing a thermosetting resin and a thermoplastic resin to the surface of titanium or a titanium alloy; and conducting a heating process to a temperature of not less than the melting point of the thermoplastic resin.